



# Top-entry Triple-offset Butterfly Valve (Online Maintenance)

Technical Datasheet & Specifications

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## 1. Product Overview

Parameter	Specification
Product Name	Triple Offset Butterfly Valve – Metal Seated (TOBV)
Description	Butterfly Valve for Oil & Gas, Petrochemical, Water Treatment. KSA/UAE export. A

## 2. Salient Features



✓ IBR Certified Valves

✓ NiAlBr NAB Valves

## 4. Technical Specifications

Parameter	Specification
Design Standard	API 609, ASME B16.34
Pressure Rating	ASME Class 150 to 900, PN10 to PN150
Size Range	6" to 48" (150 mm to 1200 mm)
Body Styles	Top-entry Bolted Bonnet, Butt-weld end, Flanged Long Pattern
Face-to-Face	ASME B16.10 Gate Valve Face-to-Face (drop-in replacement)
Maintenance	100% online top-access trim and seat replacement
Testing Standard	API 598, ISO 5208, EN 12266-1
Seat Sealing	Replaceable Stellite 6 seat in body, laminated ring on disc
Leakage Class	Bi-directional Bubble-tight zero seat leakage
Fire Safe Design	Certified to API 607 / ISO 10497

## 5. Materials of Construction

Part	Standard Material
Body & Bonnet	ASTM A216 WCB / WCC Carbon Steel, ASTM A351 CF8M Stainless Steel, A21
Disc	Matches body material (WCB with SS316 overlay or solid CF8M)
Seat	In-situ weld deposited Stellite 6, precision ground
Laminar Seal Ring	SS316 / Duplex + Flexible Graphite laminated ring
Shaft / Stem	Stainless Steel A564 Gr 630 (17-4PH) / Monel K500
Gasket / Packing	Spiral wound SS316 + graphite gasket, die-formed graphite packing

## 6. Dimensions



Conforms to API 609 or ISO 5752 Series 20. Bore sizes are full-bore from DN80 to DN1200. Standard Wafer, Lug, and Flanged face-to-face dimensions. General arrangement drawings (GAD) featuring electric actuator, pneumatic scotch-yoke actuator, or manual gear box dimensions are supplied per Purchase Order.

## 7. Testing & Inspection

Test	Standard Reference	Acceptance Criteria
Body Hydrostatic Shell	API 598 / ISO 5208	1.5 x Class Rated Pressure (e.g. 30 bar for 150#)
High Pressure Seat	API 598 / ISO 5208	1.1 x Class Rated Pressure (e.g. 22 bar for 150#)
Low Pressure Seat Air	API 598 / EN 12266-1	6 bar air pressure, 60s hold, zero bubbles/leak
Fire Safe Test	API 607 / ISO 10497	Intrinsically fire-safe design verified by fire test
PMI & Casting NDT	ASTM E1476 / ASME V	PMI check on SS316/Duplex disc and laminate

## 8. Design Standards & Codes

Code/Standard	Description
API 609	Butterfly Valves: Double Flanged, Lugged, and Wafer Type (standard)
ASME B16.34	Valves -- Flanged, Threaded, and Welding End (master pressure-temp)
ASME B16.5 / B16.47	Pipe Flanges and Flanged Fittings (dimensional standards)
API 607 / ISO 10497	Fire Test for Soft-Seated Quarter-Turn Valves
NACE MR0175 / ISO 15156	Materials for use in H2S-containing environments in oil and gas produ

## 9. Documentation & Certification

Deliverable	Details / Status
Material Test Certificates	EN 10204 3.1 Mill Certificates with full chemical & mechanical heat tra
Pressure Test Reports	Hydrostatic and pneumatic test certificates signed by QA/QC inspect
Fire Safe Certificate	API 607 / ISO 10497 fire-safe certificates signed by Lloyd's



## 10. General Notes

Complete inline trim replacement within hours through top cover

ASME B16.10 face-to-face matches standard gate valves directly

Rigid butt-welded piping connection eliminates flange leak paths

Stellite 6 hardfacing offers extreme erosion resistance

Highly suited for: Butt-welded Refinery Circuits & H2S Services

Highly suited for: Geothermal Steam Power Stations

Highly suited for: High-Pressure High-Temperature Steam Pipelines

Highly suited for: Toxic and Hazardous Fluid Isolation Systems

## 11. Contact & Enquiry

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## Product Range

### Gate Valves

Gate Valves Overview

Knife Edge Gate Valve

Sluice Valve

Pressure Seal Gate



API 600 Gate Valves

## ● **Globe Valves**

Globe Valves Overview

Piston Valve

Needle Valve

Pressure Reducing Valve

## ● **Ball Valves**

Ball Valves Overview

1-Piece Ball Valve

2-Piece Ball Valve

3-Piece Ball Valve

3-Way Ball Valve

Trunnion Ball Valve

Cryogenic Ball Valve

Fire Safe Ball Valve

## ✦ **Butterfly Valves**

Butterfly Valves Overview

Wafer Type

Lug Type

Flanged Type

NAB Seawater Valves

PTFE Lined

Triple Offset

## ✓ **Check Valves**

Check Valves Overview

Swing Check Valve

Dual Plate Check

Wafer Check Valve

Lift Check Valve

Non-Slam Check Valve

Silent Check Valve

**Alloy 20 Valves**



## ▼ Strainers & Filters

Y-Strainer

Basket Strainer

T-Strainer

## 🤖 Automated & Control

Actuated Ball Valves

Control Valve Pneumatic

Control Valve Electric

Automated Butterfly

## ★ Specialty & Other

Sight Glass

Flush Bottom Valve

Steam Trap

Safety Relief Valve

Blow Down Valve

Plug Valve

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## International Supply

Middle East, Africa, UK, South East Asia



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